

## STUART Grant and Mini-grant Programs

The STUART Grant Program provides funds to Arkansas public middle school teachers to use technology for science instruction. The Mini-grant Program provides funds to Arkansas public middle school teachers to purchase consumable items for student hands-on experiences in science.

### Program Description

The Authority's STUART Grant Program provides a \$6,000 award to Arkansas teachers in grades five, six, seven, and eight to purchase a classroom participation system, a projector and a laptop computer. The Authority's Mini-grant Program provides a \$500 award to Arkansas teachers in grades five, six, seven, and eight to purchase consumable science materials.

### Awards

This year ASTA received 100 mini-grant applications and 36 STUART applications. There will be 91 mini-grant awards and 10 STUART awards.

Individual teacher final report comments have indicated a positive impact on the performance of their students. Some teachers have indicated that the Mini-grant awards enhanced their professional development by allowing them to involve their students in additional science experiences. The introduction of the new technology with the STUART Grants has been beneficial to both the students and the teachers.



## Technology Transfer Assistance Grant Program

### Purpose

The Technology Transfer Assistance Grant Program (TTAG) assists Arkansas' enterprises in developing or improving products or processes through the transfer of technical solutions to technology-based, industry-driven problems, thus enhancing that enterprise's market competitiveness.

### Program Description

The Authority provides limited financial support for the transfer and deployment of innovative technology. The Authority will fund up to \$3,750 of costs associated with transferring new or existing technology from a qualified applicant -- such as a public or private enterprise, laboratory, college or university -- to an enterprise based in Arkansas. Up to \$5,000 of total project costs will be considered, with the first \$2,500 funded by the Authority; the remaining \$2,500 is cost-shared equally (50:50) between the Authority and the enterprise. Each enterprise is eligible to receive assistance for two technology transfer projects per year. Projects are evaluated on a competitive basis.

### Awards

In FY05, the Authority's Board of Directors authorized nine TTAG projects totaling \$31,225.00 through TTAG to help clients solve technical problems. The private sector invested an additional \$9,800.00 in these solutions. These investments assisted 9 separate companies, located in five counties, representing the following North American Industry Classification System (NAICS) groups. See table on following page.

### SBIR Related TTAG's:

In the first quarter of FY05, the Authority invested \$14,000 in 4 SBIR Projects.

Industry Type	Numbers
Drugs and Druggists' Sundries Merchant Wholesalers	1
Other Plastics Product Manufacturing	1
General Freight Trucking, Long Distance, Less Than Truckload	1
Industrial Launderers	1
Engineering Services	1
Professional, Scientific, and Technical Services	1
Farm and Garden Machinery and Equipment Merchant Wholesalers	1
Analytical Laboratory Instrument Manufacturing	1
Research and Development in the Physical, Engineering, and Life Sciences	1
Total	9

### Service Area

Product Development and Design	1
Quality/Inspection	3
SBIR Assistance	4
Business System/Business Management	1
Total	9

## Technology Transfer Assistance Grant Program- continued...

### Client Profile

Average Number of employees	237
Average Age of Corporation	15 Years
Average Year Corporation Founded	1989
Most Active County	Washington
Average Authority Investment	\$3,469.44
Total Authority Investment	\$31,225.00
Average Client Investment	\$1,088.89
Total Client Investment	\$9,800.00



## R&D Tax Credit Under Programs of the Authority

Arkansas Science & Technology Authority's Board of Directors approved an R & D Tax Credit Application for Green Technologies in FY05.

### Awarded

### Description

Green Technologies

Development of novel mobility assistive devices primarily Wheelchairs.



## Seed Capital Investment Program

### Purpose

The Seed Capital Investment Program (SCIP) fosters the development of innovative technology-based businesses and projects that will stimulate economic growth and industrial competitiveness in Arkansas.

### Program Description

The Program assists in the initial capitalization or expansion of Arkansas-based businesses undertaking projects that are science or technology based and have a commercial or job creation potential. Each dollar invested by SCIP is leveraged by three dollars in matching funds from other sources. SCIP is limited to working capital and does not finance fixed assets.

### Investment

No investments were made this quarter.





## Technology Development Program

### Purpose

The Technology Development Program (TDP) provides assistance in the development and commercialization of new technology-based products and processes through innovative technology development projects.

### Program Description

The Program may provide monies to qualified applicants if their proposed project possesses a well-defined and comprehensive project plan and promotes the purpose of the Authority. The maximum award is limited by law to \$50,000. Awards are considered investments with terms negotiated on a case-by-case basis with a maximum 5 percent royalty on net sales for a maximum period of 10 years.

### Investments

No investments were made this quarter.



## Arkansas Manufacturing Solutions

### Purpose:

In April of 2004, Arkansas Manufacturing Extension Network changed its name to Arkansas Manufacturing Solutions (AMS). AMS is designed to improve Arkansas' manufacturing and industrial competitiveness through the delivery of comprehensive technical and business assistance services.

### AMS Description:

AMS is an affiliate of the National Institute of Standards and Technology Manufacturing Extension Partnership (NIST MEP). It strives to improve the quality, productivity and global competitiveness of Arkansas' small and medium-sized manufacturers by providing technical and business management assistance services.

AMS' primary partners are the University of Arkansas, Fayetteville; Southern Arkansas University Tech, Camden; Arkansas State University, Jonesboro; the University of Arkansas at Little Rock; Winrock International, Morrilton; Arkansas Institute for Performance Excellence; and Arkansas Department of Economic Development.

Eight field staff deliver services to manufacturers. Typical services include Lean Manufacturing, Quality Management Systems, Six Sigma, Environmental, Health & Safety Management Systems, and General Technical and Management Assistance.

### Awards:

For FY2005, the Board authorized funding in the amount of \$997,477 to support the director and eight field staff: three at the University of Arkansas, Fayetteville; three at the University of Arkansas at Little Rock; one at Arkansas State University; and one at Southern Arkansas University Tech. The Board also authorized \$25,250 for partner activities.

On October 14, 2004, AMS Director received the 2004 Arkansas Institute for Performance Excellence Quality Commitment award.

The following improvements were reported by clients during the NIST MEP Survey of AMS projects completed from completed from July 2002-June 2003 with Arkansas companies:

Increased or Retained Sales	\$62,188,000
Cost Savings	\$10,669,036
Company Investments	\$8,718,500
Jobs Created or Retained	1117



## Arkansas Manufacturing Solutions – Continued

In FY 05 Q1 (July-September 2004), AMS field staff completed 36 projects in the following manufacturing industries and service areas.

Naics Grp.	Industry Type	Total
311	Food Manufacturing	3
312	Beverage & Tobacco Product Manufacturing	0
315	Apparel Manufacturing	2
316	Leather and Applied Product Manufacturing	0
321	Wood Product Manufacturing	3
322	Paper Manufacturing	1
323	Printing and Related Support Activities	0
324	Pertroleum and Coal Products Manufacturing	0
325	Chemical Manufacturing	0
326	Plastic and Rubber Products Manufacturing	4
327	Nonmetallic Mineral Product Manufacturing	0
331	Primary Metal Product Manufacturing	1
332	Fabricated Metal Product Manufacturing	3
333	Machinery Manufacturing	4
334	Computer & Electronics Product Manufacturing	1
335	Electrical Equipment, Appliance & Component Mfg	1
336	Transportation Equipment	2
337	Furniture and Related Product Manufacturing	0
339	Miscellaneous Manufacturning	0
	Other	11
Total		36

Substance Description	Total
Business Systems/ Management	2
CAD/CAM/CAE	0
EDI/Communications/LAN	0
Environmental	9
General	8
Human Resources	1
Market Development	0
Process Improvement	11
Product Development and Design	0
Quality Inspection	5
Total	36





## Arkansas Manufacturing Solutions – Continued

Funding Received	
NIST Funding	\$223,652.50
Client Fees	\$ 80,394.50
State Funding <sup>1</sup>	
Total	\$348,047.00

1. State funding is to be used for quarterly partner advances for field staff expenses. The advance for the first quarter was paid using federal funds, and plans are to use approximately one half of the available FY 05 state funds when providing the second quarter advance.





General Operations Report 1 <sup>st</sup> quarter 2005		Actual				
Character	Budget	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Total
Regular Salaries	521,124	124,347.91				124,348
Extra Help	12,000	2,448.00		0.00		2,448
Maintenance and Operations	144,204	37,696.24				37,696
Fringe Benefits	138,654	36,561.84				36,562
Research	0					0
(Reallocation)	0					0
Conference Fees and Training	27,223	230.36				230
Professional Fees	16,800					0
Capital Outlay	0					0
Marketing and Redistribution	0					0
Technology Development	154,352	27,475.00				27,475
TOTAL	1,014,357	228,759.35	0.00	0.00	0.00	228,759

Network Support		Actual				
Character	Budget	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Total
Act 1291 of 2003	257,182	0.00				0

Seed Capital Fund		Actual				
Character	Budget	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Total
Seed Capital Investments	1,900,000	0.00		0.00		0
Seed Capital Fund Balance	1,737,302					

Network Operations		Actual				
Character	Budget	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Total
Regular Salaries	129,756	34,084.68				34,085
Maintenance and Operations	124,456	19,397.78				19,398
Fringe Benefits	34,396	9,747.51				9,748
Grants	200,000	15,019.50				15,020
Conference Fees and Training	37,928	2,987.29				2,987
Professional Fees	50,000					0
Capital Outlay	0			0.00	0	0
Field Services	997,477	265,227				265,227
Miscellaneous Fees	0					0
TOTAL	1,574,013	346,463.69	0.00	0.00	0.00	346,464

Grants Received		Ann'l Budget	1st Qtr.	2nd Qtr.	3rd Qtr.	4th Qtr.	Total
Winthrop Rockefeller Foundation: Middle School Science Year 2 of 3 Total award \$405,000		135,000	32,500.00				32,500
Winthrop Rockefeller Foundation: Entrepreneurial Arkansas Year 1 of 3 Total award \$443,750		381,473	412.08				412

## Current Board of Directors

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<p><b>Gordon Knetzer</b> Owner Advance Construction Systems, Inc. Term Expires 2007</p>	<p><b>J. Wylie Harris, Jr. - Chair</b> Oil, Mining &amp; Ranching Operations Salem Term Expires 2005</p>



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